

# INTERNATIONAL SEARCH REPORT

International application No.  
PCT/AU 99/00949

## A. CLASSIFICATION OF SUBJECT MATTER

Int Cl<sup>6</sup>: IPC G01J 9/00, G01B 9/02

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)  
IPC

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)  
INSPEC, WPAT, JAPIO: phase AND (retrieve OR recover OR image) AND intensity AND  
(integral OR transform OR fourier or FFT)

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	US 5 367 375 A (SIEBERT E) 22 November 1994 See whole document	1, 27, 51, 65, 80, 94, 108, 109
Y	Optics Communications, Volume 133, issued 1 January 1997 (Elsevier), T E Gureyev and K A Nugent, "Rapid quantitative phase imaging using the transport of intensity equation", pages 339-346 See whole document	1, 27, 51, 65, 80, 94, 108, 109
Y	Journal of the Optical Society of America A, Volume 13, No. 8, issued August 1996, T E Gureyev and K A Nugent, "Phase retrieval with the transport of intensity equation. II. Orthogonal series solution for nonuniform illumination", 1670-1682 See whole document	1, 27, 51, 65, 80, 94, 108, 109

☐ Further documents are listed in the  
continuation of Box C

☒ See patent family annex

\* Special categories of cited documents:

"A" document defining the general state of the art which is  
not considered to be of particular relevance  
"E" earlier application or patent but published on or after  
the international filing date  
"L" document which may throw doubts on priority claim(s)  
or which is cited to establish the publication date of  
another citation or other special reason (as specified)  
"O" document referring to an oral disclosure, use,  
exhibition or other means  
"P" document published prior to the international filing  
date but later than the priority date claimed

"T" later document published after the international filing date or  
priority date and not in conflict with the application but cited to  
understand the principle or theory underlying the invention  
"X" document of particular relevance; the claimed invention cannot  
be considered novel or cannot be considered to involve an  
inventive step when the document is taken alone  
"Y" document of particular relevance; the claimed invention cannot  
be considered to involve an inventive step when the document is  
combined with one or more other such documents, such  
combination being obvious to a person skilled in the art  
"&" document member of the same patent family

Date of the actual completion of the international search  
3 December 1999

Date of mailing of the international search report  
16 DEC 1999

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# INTERNATIONAL SEARCH REPORT

## Information on patent family members

International application No.  
PCT/AU 99/00949

This Annex lists the known "A" publication level patent family members relating to the patent documents cited in the above-mentioned international search report. The Australian Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

Patent Document Cited in Search Report				Patent Family Member			
US	5367375	AU	32865/93	CA	2088649	EP	555099
		JP	5281048				
							END OF ANNEX